

Occupational Employment and Wage Estimates

Hattiesburg MSA

May 2005 Panel

MDES

**Increasing Employment in
Mississippi**

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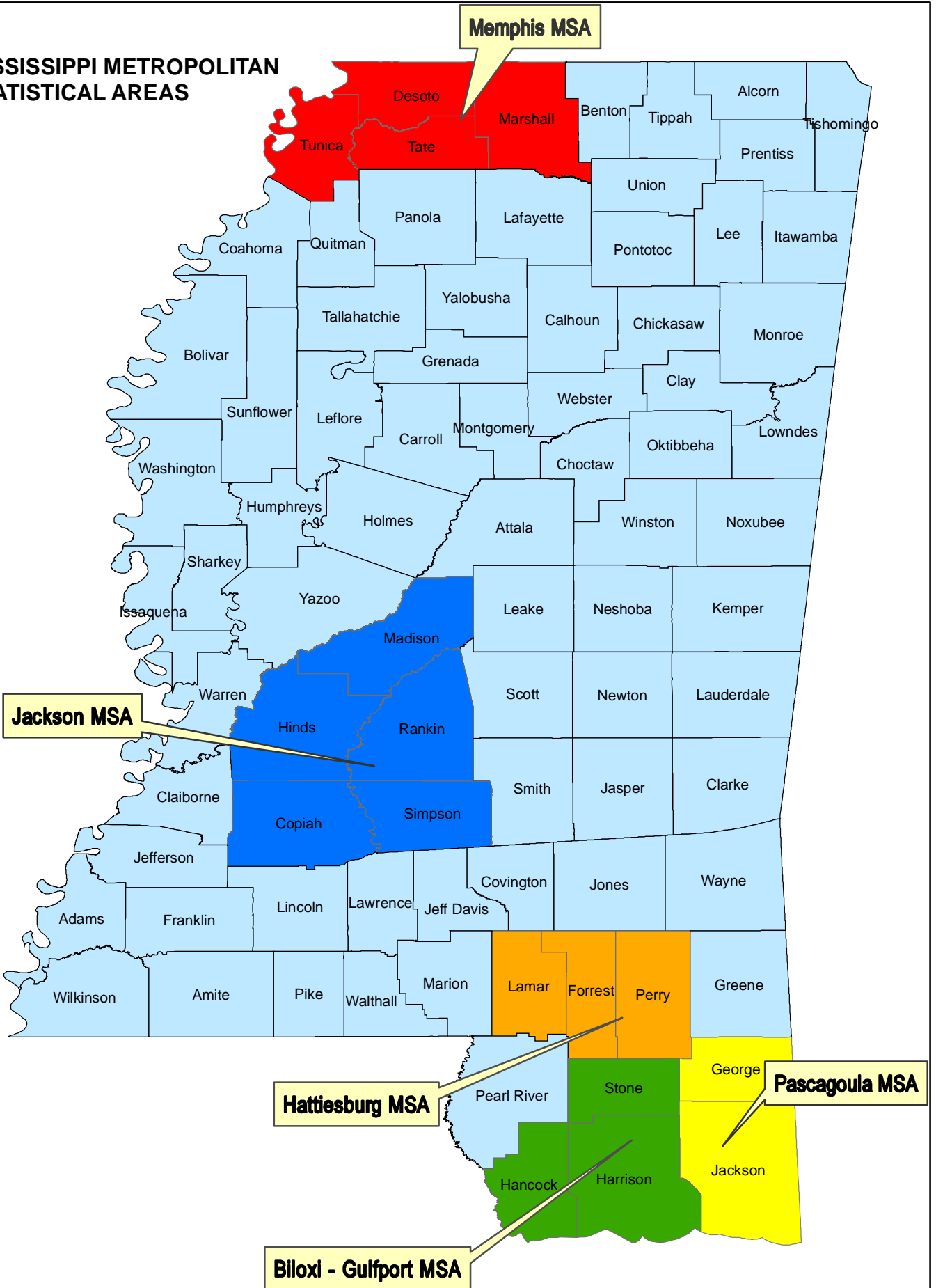
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Technical Notes for May 2005 Panel

NOTE: The Hattiesburg Metropolitan Statistical Area represents the following counties:

Forrest County
Lamar County
Perry County

MISSISSIPPI METROPOLITAN STATISTICAL AREAS



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SOC Code	SOC Title	Employment (1)	Average Hourly	Average Annual	Entry Hourly	Entry Annual	Experienced Hourly	Experienced Annual
00-0000	Total all occupations	53,350	\$14.18	\$29,500	\$6.84	\$14,230	\$17.90	\$37,230
11-0000	Management Occupations	2,600	\$29.04	\$60,400	\$13.22	\$27,490	\$36.95	\$76,860
11-1011	Chief Executives	290	\$49.08	\$102,080	\$17.80	\$37,010	\$64.72	\$134,610
11-1021	General and Operations Managers	720	\$31.11	\$64,720	\$16.78	\$34,900	\$38.28	\$79,630
11-1031	Legislators	70	N/A	\$19,320	N/A	\$13,290	N/A	\$22,340
11-2011	Advertising and Promotions Managers	10	\$25.56	\$53,160	\$12.84	\$26,710	\$31.92	\$66,380
11-2021	Marketing Managers	20	\$28.54	\$59,360	\$15.69	\$32,640	\$34.96	\$72,720
11-2022	Sales Managers	90	\$29.38	\$61,120	\$18.19	\$37,840	\$34.98	\$72,760
11-2031	Public Relations Managers	10	\$24.33	\$50,600	\$12.97	\$26,970	\$30.00	\$62,410
11-3021	Computer and Information Systems Managers	60	\$25.11	\$52,240	\$17.95	\$37,340	\$28.70	\$59,690
11-3031	Financial Managers	110	\$27.00	\$56,160	\$16.04	\$33,370	\$32.48	\$67,560
11-3041	Compensation and Benefits Managers	10	\$27.43	\$57,050	\$19.43	\$40,410	\$31.43	\$65,370
11-3042	Training and Development Managers	10	\$28.26	\$58,770	\$22.14	\$46,050	\$31.31	\$65,130
11-3051	Industrial Production Managers	70	\$38.32	\$79,710	\$25.76	\$53,580	\$44.61	\$92,780
11-3061	Purchasing Managers	20	\$22.66	\$47,140	\$12.39	\$25,770	\$27.80	\$57,820
11-3071	Transportation, Storage, and Distribution Managers	30	\$24.52	\$51,000	\$15.14	\$31,490	\$29.21	\$60,750
11-9021	Construction Managers	70	\$30.02	\$62,440	\$15.15	\$31,510	\$37.45	\$77,900
11-9031	Education Administrators, Preschool and Child Care Center/Program	60	\$13.26	\$27,570	\$8.17	\$16,990	\$15.80	\$32,860
11-9032	Education Administrators, Elementary and Secondary School	100	N/A	\$59,760	N/A	\$49,960	N/A	\$64,660
11-9041	Engineering Managers	30	\$34.22	\$71,170	\$21.97	\$45,710	\$40.34	\$83,900
11-9051	Food Service Managers	130	\$14.90	\$31,000	\$10.45	\$21,740	\$17.13	\$35,630

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SOC Code	SOC Title	Employment (1)	Average Hourly	Average Annual	Entry Hourly	Entry Annual	Experienced Hourly	Experienced Annual
11-9061	Funeral Directors	N/A	\$16.20	\$33,700	\$12.28	\$25,530	\$18.16	\$37,780
11-9111	Medical and Health Services Managers	200	\$30.72	\$63,890	\$17.03	\$35,430	\$37.56	\$78,120
11-9141	Property, Real Estate, and Community Association Managers	130	\$12.63	\$26,280	\$7.58	\$15,770	\$15.16	\$31,530
11-9151	Social and Community Service Managers	40	\$15.12	\$31,440	\$9.38	\$19,510	\$17.98	\$37,410
11-9199	Managers, All Other	30	\$33.33	\$69,330	\$21.47	\$44,650	\$39.26	\$81,670
13-0000	Business and Financial Operations Occupations	1,170	\$21.13	\$43,960	\$12.03	\$25,010	\$25.69	\$53,430
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	N/A	\$14.02	\$29,160	\$11.61	\$24,140	\$15.23	\$31,680
13-1031	Claims Adjusters, Examiners, and Investigators	50	\$26.58	\$55,280	\$19.43	\$40,410	\$30.15	\$62,720
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and	80	\$16.13	\$33,550	\$12.87	\$26,770	\$17.76	\$36,940
13-1051	Cost Estimators	50	\$22.08	\$45,930	\$14.57	\$30,290	\$25.84	\$53,750
13-1071	Employment, Recruitment, and Placement Specialists	60	\$15.94	\$33,150	\$11.50	\$23,920	\$18.16	\$37,760
13-1073	Training and Development Specialists	70	\$17.48	\$36,360	\$12.86	\$26,760	\$19.79	\$41,160
13-1111	Management Analysts	N/A	\$30.72	\$63,890	\$17.53	\$36,470	\$37.31	\$77,600
13-1199	Business Operations Specialists, All Other	70	\$30.04	\$62,490	\$14.51	\$30,180	\$37.81	\$78,640
13-2011	Accountants and Auditors	190	\$23.40	\$48,670	\$16.12	\$33,530	\$27.04	\$56,240
13-2021	Appraisers and Assessors of Real Estate	60	\$16.70	\$34,740	\$13.05	\$27,140	\$18.53	\$38,540
13-2071	Loan Counselors	50	\$20.55	\$42,740	\$13.35	\$27,760	\$24.15	\$50,230
13-2072	Loan Officers	100	\$24.77	\$51,530	\$14.03	\$29,190	\$30.15	\$62,700
13-2081	Tax Examiners, Collectors, and Revenue Agents	30	\$22.45	\$46,710	\$12.16	\$25,280	\$27.60	\$57,420
15-0000	Computer and Mathematical Occupations	350	\$17.97	\$37,370	\$10.22	\$21,260	\$21.84	\$45,430
15-1021	Computer Programmers	100	\$19.52	\$40,600	\$12.41	\$25,810	\$23.07	\$47,990

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SOC Code	SOC Title	Employment (1)	Average Hourly	Average Annual	Entry Hourly	Entry Annual	Experienced Hourly	Experienced Annual
15-1041	Computer Support Specialists	160	\$12.58	\$26,170	\$9.13	\$18,990	\$14.31	\$29,770
15-1051	Computer Systems Analysts	40	\$27.43	\$57,050	\$21.00	\$43,680	\$30.64	\$63,730
15-1071	Network and Computer Systems Administrators	30	\$23.57	\$49,020	\$17.30	\$35,980	\$26.70	\$55,540
17-0000	Architecture and Engineering Occupations	520	\$22.17	\$46,110	\$12.83	\$26,690	\$26.84	\$55,830
17-1011	Architects, Except Landscape and Naval	N/A	\$20.06	\$41,720	\$13.65	\$28,390	\$23.26	\$48,390
17-1022	Surveyors	30	\$13.86	\$28,830	\$9.87	\$20,520	\$15.86	\$32,990
17-2051	Civil Engineers	40	\$28.93	\$60,170	\$18.25	\$37,970	\$34.27	\$71,280
17-2071	Electrical Engineers	30	\$26.27	\$54,650	\$23.62	\$49,130	\$27.60	\$57,410
17-2112	Industrial Engineers	30	\$31.13	\$64,760	\$18.47	\$38,420	\$37.46	\$77,930
17-2141	Mechanical Engineers	N/A	\$22.20	\$46,180	\$15.76	\$32,770	\$25.42	\$52,880
17-2199	Engineers, All Other	10	\$20.07	\$41,740	\$10.86	\$22,590	\$24.67	\$51,320
17-3011	Architectural and Civil Drafters	30	\$15.68	\$32,610	\$9.71	\$20,200	\$18.66	\$38,810
17-3012	Electrical and Electronics Drafters	N/A	\$21.39	\$44,490	\$16.20	\$33,700	\$23.98	\$49,880
17-3013	Mechanical Drafters	30	\$17.31	\$36,010	\$14.27	\$29,670	\$18.84	\$39,180
17-3022	Civil Engineering Technicians	70	\$14.67	\$30,510	\$10.45	\$21,730	\$16.78	\$34,900
17-3023	Electrical and Electronic Engineering Technicians	60	\$23.50	\$48,890	\$19.99	\$41,570	\$25.26	\$52,540
17-3031	Surveying and Mapping Technicians	20	\$12.64	\$26,300	\$9.70	\$20,180	\$14.12	\$29,360
19-0000	Life, Physical, and Social Science Occupations	210	\$19.60	\$40,760	\$13.34	\$27,750	\$22.73	\$47,270
19-1031	Conservation Scientists	N/A	\$19.53	\$40,620	\$13.45	\$27,980	\$22.57	\$46,940
19-1032	Foresters	10	\$23.86	\$49,630	\$15.44	\$32,110	\$28.07	\$58,390
19-2031	Chemists	30	\$26.24	\$54,570	\$18.32	\$38,110	\$30.20	\$62,810

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19-3021	Market Research Analysts	10	\$18.53	\$38,550	\$10.72	\$22,300	\$22.44	\$46,670
19-4031	Chemical Technicians	30	\$17.93	\$37,290	\$12.98	\$27,000	\$20.40	\$42,440
19-4093	Forest and Conservation Technicians	20	\$18.75	\$39,010	\$12.79	\$26,600	\$21.74	\$45,210
21-0000	Community and Social Services Occupations	720	\$15.50	\$32,240	\$11.75	\$24,430	\$17.38	\$36,150
21-1011	Substance Abuse and Behavioral Disorder Counselors	70	\$15.11	\$31,430	\$10.08	\$20,970	\$17.62	\$36,660
21-1012	Educational, Vocational, and School Counselors	70	\$19.68	\$40,940	\$13.94	\$29,000	\$22.55	\$46,910
21-1015	Rehabilitation Counselors	20	\$14.78	\$30,740	\$11.32	\$23,550	\$16.51	\$34,340
21-1021	Child, Family, and School Social Workers	80	\$15.06	\$31,330	\$11.96	\$24,880	\$16.62	\$34,560
21-1091	Health Educators	30	\$21.76	\$45,250	\$16.04	\$33,350	\$24.62	\$51,200
21-1093	Social and Human Service Assistants	40	\$11.09	\$23,070	\$9.56	\$19,890	\$11.86	\$24,660
21-2011	Clergy	N/A	\$13.85	\$28,800	\$12.04	\$25,030	\$14.75	\$30,680
23-0000	Legal Occupations	490	\$35.10	\$73,010	\$14.37	\$29,890	\$45.46	\$94,560
23-1011	Lawyers	N/A	\$40.47	\$84,180	\$23.56	\$49,000	\$48.93	\$101,770
23-1023	Judges, Magistrate Judges, and Magistrates	20	\$12.72	\$26,450	\$9.68	\$20,130	\$14.23	\$29,610
23-2011	Paralegals and Legal Assistants	50	\$16.57	\$34,470	\$10.70	\$22,260	\$19.51	\$40,570
23-2092	Law Clerks	30	\$16.59	\$34,510	\$11.50	\$23,910	\$19.14	\$39,810
25-0000	Education, Training, and Library Occupations	3,750	\$17.18	\$35,730	\$8.78	\$18,250	\$21.38	\$44,460
25-2011	Preschool Teachers, Except Special Education	230	\$8.78	\$18,270	\$5.93	\$12,330	\$10.21	\$21,230
25-2012	Kindergarten Teachers, Except Special Education	120	N/A	\$30,570	N/A	\$20,260	N/A	\$35,730
25-2021	Elementary School Teachers, Except Special Education	590	N/A	\$34,540	N/A	\$25,180	N/A	\$39,220
25-2022	Middle School Teachers, Except Special and Vocational Education	300	N/A	\$31,570	N/A	\$22,120	N/A	\$36,300

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25-2023	Vocational Education Teachers, Middle School	10	N/A	\$37,490	N/A	\$32,670	N/A	\$39,910
25-2031	Secondary School Teachers, Except Special and Vocational Education	510	N/A	\$34,740	N/A	\$23,480	N/A	\$40,370
25-2032	Vocational Education Teachers, Secondary School	N/A	N/A	\$39,640	N/A	\$30,240	N/A	\$44,340
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	100	N/A	\$36,240	N/A	\$26,520	N/A	\$41,100
25-2043	Special Education Teachers, Secondary School	90	N/A	\$36,320	N/A	\$29,650	N/A	\$39,660
25-4021	Librarians	60	\$19.69	\$40,960	\$14.42	\$29,980	\$22.33	\$46,460
25-9031	Instructional Coordinators	30	\$22.06	\$45,880	\$14.82	\$30,820	\$25.68	\$53,410
25-9041	Teacher Assistants	330	N/A	\$14,100	N/A	\$12,410	N/A	\$14,950
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	430	\$15.92	\$33,120	\$7.69	\$15,990	\$20.04	\$41,680
27-1023	Floral Designers	50	\$7.82	\$16,260	\$6.14	\$12,760	\$8.66	\$18,010
27-1024	Graphic Designers	50	\$13.41	\$27,900	\$10.65	\$22,160	\$14.79	\$30,770
27-1025	Interior Designers	10	\$14.65	\$30,480	\$11.20	\$23,300	\$16.38	\$34,070
27-1026	Merchandise Displayers and Window Trimmers	10	\$10.00	\$20,810	\$6.10	\$12,680	\$11.96	\$24,870
27-2022	Coaches and Scouts	140	N/A	\$49,020	N/A	\$25,560	N/A	\$60,750
27-3031	Public Relations Specialists	60	\$13.23	\$27,530	\$9.01	\$18,740	\$15.35	\$31,920
27-4021	Photographers	10	\$9.01	\$18,740	\$7.19	\$14,950	\$9.92	\$20,640
29-0000	Healthcare Practitioners and Technical Occupations	4,490	\$26.18	\$54,450	\$11.48	\$23,880	\$33.52	\$69,730
29-1021	Dentists, General	N/A	\$88.01	\$183,050	\$76.64	\$159,410	\$93.69	\$194,870
29-1031	Dietitians and Nutritionists	40	\$18.62	\$38,730	\$14.84	\$30,870	\$20.51	\$42,650
29-1051	Pharmacists	140	\$40.46	\$84,150	\$32.61	\$67,830	\$44.38	\$92,310
29-1062	Family and General Practitioners	190	\$66.90	\$139,150	\$37.97	\$78,980	\$81.37	\$169,240

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29-1111	Registered Nurses	1,700	\$24.85	\$51,680	\$17.51	\$36,410	\$28.52	\$59,320
29-1122	Occupational Therapists	40	N/A	N/A	N/A	N/A	N/A	N/A
29-1123	Physical Therapists	60	\$34.46	\$71,680	\$20.32	\$42,260	\$41.53	\$86,390
29-1125	Recreational Therapists	30	\$14.82	\$30,820	\$12.03	\$25,030	\$16.21	\$33,720
29-1126	Respiratory Therapists	70	\$16.65	\$34,640	\$15.04	\$31,290	\$17.46	\$36,310
29-1127	Speech-Language Pathologists	40	\$23.26	\$48,380	\$18.63	\$38,750	\$25.57	\$53,190
29-1131	Veterinarians	20	\$37.30	\$77,590	\$26.71	\$55,570	\$42.60	\$88,610
29-2011	Medical and Clinical Laboratory Technologists	130	\$18.21	\$37,870	\$12.56	\$26,110	\$21.03	\$43,750
29-2012	Medical and Clinical Laboratory Technicians	110	\$12.54	\$26,070	\$9.68	\$20,130	\$13.96	\$29,040
29-2021	Dental Hygienists	80	\$20.62	\$42,900	\$16.61	\$34,550	\$22.63	\$47,070
29-2032	Diagnostic Medical Sonographers	30	\$20.80	\$43,260	\$16.44	\$34,200	\$22.97	\$47,790
29-2034	Radiologic Technologists and Technicians	120	\$19.31	\$40,170	\$14.87	\$30,940	\$21.53	\$44,790
29-2052	Pharmacy Technicians	130	\$9.49	\$19,750	\$7.62	\$15,840	\$10.43	\$21,700
29-2056	Veterinary Technologists and Technicians	40	\$9.37	\$19,490	\$7.68	\$15,980	\$10.21	\$21,240
29-2061	Licensed Practical and Licensed Vocational Nurses	510	\$13.30	\$27,660	\$10.72	\$22,290	\$14.59	\$30,350
29-2071	Medical Records and Health Information Technicians	130	\$10.14	\$21,100	\$8.21	\$17,080	\$11.11	\$23,110
29-9011	Occupational Health and Safety Specialists	10	\$24.34	\$50,620	\$15.21	\$31,640	\$28.90	\$60,110
31-0000	Healthcare Support Occupations	1,540	\$9.07	\$18,870	\$7.01	\$14,590	\$10.10	\$21,010
31-1011	Home Health Aides	N/A	\$10.21	\$21,250	\$7.48	\$15,570	\$11.58	\$24,080
31-1012	Nursing Aides, Orderlies, and Attendants	830	\$7.76	\$16,140	\$6.71	\$13,970	\$8.29	\$17,230
31-2021	Physical Therapist Assistants	40	\$13.06	\$27,160	\$6.98	\$14,510	\$16.10	\$33,490

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31-2022	Physical Therapist Aides	20	\$7.30	\$15,190	\$6.72	\$13,980	\$7.59	\$15,800
31-9091	Dental Assistants	140	\$11.59	\$24,100	\$9.54	\$19,840	\$12.61	\$26,220
31-9092	Medical Assistants	280	\$10.61	\$22,070	\$7.83	\$16,290	\$12.00	\$24,970
31-9094	Medical Transcriptionists	70	\$11.58	\$24,100	\$9.71	\$20,190	\$12.52	\$26,050
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	30	\$7.09	\$14,740	\$6.05	\$12,580	\$7.61	\$15,820
31-9099	Healthcare Support Workers, All Other	40	\$8.45	\$17,570	\$7.62	\$15,840	\$8.87	\$18,440
33-0000	Protective Service Occupations	1,180	\$11.07	\$23,030	\$7.03	\$14,620	\$13.09	\$27,230
33-1012	First-Line Supervisors/Managers of Police and Detectives	40	\$17.36	\$36,110	\$12.60	\$26,210	\$19.74	\$41,060
33-1099	First-Line Supervisors/Managers, Protective Service Workers,	50	\$15.46	\$32,160	\$15.04	\$31,270	\$15.68	\$32,600
33-3012	Correctional Officers and Jailers	110	\$10.14	\$21,080	\$7.54	\$15,690	\$11.43	\$23,780
33-3021	Detectives and Criminal Investigators	30	\$21.10	\$43,880	\$11.31	\$23,530	\$25.99	\$54,050
33-3051	Police and Sheriff's Patrol Officers	320	\$12.32	\$25,630	\$9.70	\$20,180	\$13.63	\$28,350
33-9032	Security Guards	370	\$8.48	\$17,640	\$5.87	\$12,220	\$9.78	\$20,350
33-9091	Crossing Guards	20	\$6.96	\$14,480	\$5.93	\$12,330	\$7.48	\$15,560
33-9099	Protective Service Workers, All Other	20	\$10.20	\$21,210	\$6.58	\$13,690	\$12.00	\$24,970
35-0000	Food Preparation and Serving-Related Occupations	5,730	\$7.33	\$15,240	\$5.92	\$12,320	\$8.03	\$16,700
35-1011	Chefs and Head Cooks	130	\$11.03	\$22,940	\$9.24	\$19,230	\$11.92	\$24,790
35-1012	First-Line Supervisors/Managers of Food Preparation and	500	\$10.80	\$22,470	\$7.07	\$14,710	\$12.67	\$26,350
35-2011	Cooks, Fast Food	820	\$6.45	\$13,420	\$5.93	\$12,330	\$6.71	\$13,960
35-2012	Cooks, Institution and Cafeteria	300	\$8.09	\$16,830	\$6.34	\$13,180	\$8.97	\$18,650
35-2014	Cooks, Restaurant	420	\$7.62	\$15,850	\$6.05	\$12,590	\$8.40	\$17,480

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35-2015	Cooks, Short Order	110	\$7.73	\$16,090	\$5.83	\$12,130	\$8.69	\$18,060
35-2021	Food Preparation Workers	950	\$7.53	\$15,670	\$5.95	\$12,380	\$8.32	\$17,310
35-3011	Bartenders	140	\$7.41	\$15,410	\$5.91	\$12,300	\$8.15	\$16,960
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	400	\$6.53	\$13,570	\$5.84	\$12,140	\$6.87	\$14,290
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	240	\$6.66	\$13,850	\$5.85	\$12,170	\$7.06	\$14,690
35-3031	Waiters and Waitresses	1,040	\$6.21	\$12,920	\$5.93	\$12,330	\$6.35	\$13,220
35-3041	Food Servers, Nonrestaurant	240	\$6.37	\$13,250	\$6.00	\$12,480	\$6.56	\$13,630
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	110	\$7.16	\$14,890	\$5.89	\$12,250	\$7.79	\$16,210
35-9021	Dishwashers	170	\$6.63	\$13,780	\$5.96	\$12,390	\$6.96	\$14,470
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	150	\$6.78	\$14,100	\$5.87	\$12,210	\$7.23	\$15,050
37-0000	Building and Grounds Cleaning and Maintenance Occupations	1,870	\$8.06	\$16,760	\$5.89	\$12,250	\$9.14	\$19,010
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial	80	\$12.70	\$26,410	\$8.03	\$16,700	\$15.03	\$31,260
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, Janitors and Cleaners, Except Maids and Housekeeping Cleaners	50	\$14.27	\$29,690	\$11.21	\$23,310	\$15.81	\$32,880
37-2011	Housekeeping Cleaners	1,080	\$7.32	\$15,230	\$5.88	\$12,240	\$8.04	\$16,720
37-2012	Maids and Housekeeping Cleaners	310	\$6.89	\$14,330	\$5.90	\$12,270	\$7.38	\$15,360
37-2021	Pest Control Workers	50	\$12.68	\$26,380	\$9.81	\$20,410	\$14.12	\$29,360
37-3011	Landscaping and Groundskeeping Workers	280	\$8.87	\$18,460	\$6.90	\$14,360	\$9.86	\$20,500
39-0000	Personal Care and Service Occupations	840	\$7.95	\$16,540	\$5.94	\$12,360	\$8.96	\$18,630
39-1021	First-Line Supervisors/Managers of Personal Service Workers	20	\$10.69	\$22,240	\$8.32	\$17,300	\$11.88	\$24,710
39-2021	Nonfarm Animal Caretakers	30	\$8.89	\$18,480	\$6.07	\$12,620	\$10.30	\$21,410
39-3091	Amusement and Recreation Attendants	150	\$7.91	\$16,440	\$6.97	\$14,500	\$8.37	\$17,420

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39-5012	Hairdressers, Hairstylists, and Cosmetologists	70	\$7.80	\$16,210	\$5.80	\$12,070	\$8.79	\$18,280
39-9011	Child Care Workers	240	\$6.89	\$14,320	\$5.99	\$12,460	\$7.34	\$15,260
39-9032	Recreation Workers	90	\$7.81	\$16,240	\$5.93	\$12,320	\$8.75	\$18,200
41-0000	Sales and Related Occupations	6,900	\$11.02	\$22,910	\$6.44	\$13,390	\$13.31	\$27,680
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	770	\$14.59	\$30,340	\$10.50	\$21,830	\$16.63	\$34,590
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	40	\$28.96	\$60,240	\$16.53	\$34,380	\$35.18	\$73,180
41-2011	Cashiers	2,700	\$7.41	\$15,400	\$5.90	\$12,280	\$8.16	\$16,960
41-2021	Counter and Rental Clerks	120	\$9.92	\$20,640	\$6.96	\$14,470	\$11.41	\$23,720
41-2022	Parts Salespersons	170	\$11.38	\$23,660	\$7.71	\$16,030	\$13.21	\$27,470
41-2031	Retail Salespersons	2,310	\$10.66	\$22,160	\$6.43	\$13,360	\$12.77	\$26,560
41-3011	Advertising Sales Agents	30	\$20.80	\$43,270	\$13.81	\$28,710	\$24.30	\$50,550
41-3021	Insurance Sales Agents	180	\$19.65	\$40,880	\$13.08	\$27,210	\$22.94	\$47,710
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and	40	\$29.43	\$61,220	\$17.25	\$35,870	\$35.53	\$73,900
41-4012	Sales Representatives, Wholesale and Manufacturing, Except	470	\$19.71	\$41,000	\$11.75	\$24,440	\$23.69	\$49,280
43-0000	Office and Administrative Support Occupations	9,170	\$11.04	\$22,950	\$7.03	\$14,630	\$13.04	\$27,110
43-1011	First-Line Supervisors/Managers of Office and Administrative	520	\$16.89	\$35,130	\$11.09	\$23,070	\$19.78	\$41,150
43-2011	Switchboard Operators, Including Answering Service	90	\$8.02	\$16,670	\$6.32	\$13,150	\$8.86	\$18,440
43-3011	Bill and Account Collectors	280	\$11.20	\$23,290	\$9.08	\$18,890	\$12.26	\$25,490
43-3021	Billing and Posting Clerks and Machine Operators	380	\$10.40	\$21,630	\$7.54	\$15,690	\$11.82	\$24,590
43-3031	Bookkeeping, Accounting, and Auditing Clerks	870	\$13.54	\$28,160	\$9.69	\$20,150	\$15.46	\$32,160
43-3051	Payroll and Timekeeping Clerks	80	\$12.76	\$26,530	\$10.38	\$21,590	\$13.94	\$29,000

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43-3061	Procurement Clerks	20	\$12.66	\$26,340	\$9.91	\$20,610	\$14.04	\$29,200
43-3071	Tellers	280	\$9.60	\$19,960	\$7.88	\$16,390	\$10.46	\$21,750
43-4031	Court, Municipal, and License Clerks	60	\$10.35	\$21,530	\$8.08	\$16,800	\$11.49	\$23,900
43-4041	Credit Authorizers, Checkers, and Clerks	40	\$11.84	\$24,620	\$10.00	\$20,810	\$12.75	\$26,520
43-4051	Customer Service Representatives	610	\$9.76	\$20,300	\$7.27	\$15,130	\$11.01	\$22,890
43-4061	Eligibility Interviewers, Government Programs	30	\$12.14	\$25,260	\$11.02	\$22,930	\$12.70	\$26,420
43-4071	File Clerks	150	\$7.32	\$15,230	\$5.99	\$12,470	\$7.98	\$16,600
43-4081	Hotel, Motel, and Resort Desk Clerks	130	\$7.18	\$14,940	\$5.99	\$12,450	\$7.78	\$16,180
43-4111	Interviewers, Except Eligibility and Loan	140	\$11.11	\$23,120	\$9.20	\$19,130	\$12.07	\$25,110
43-4121	Library Assistants, Clerical	10	\$6.97	\$14,500	\$5.86	\$12,190	\$7.53	\$15,650
43-4131	Loan Interviewers and Clerks	110	\$11.39	\$23,680	\$9.74	\$20,250	\$12.21	\$25,400
43-4141	New Accounts Clerks	20	\$14.23	\$29,590	\$12.34	\$25,660	\$15.17	\$31,550
43-4151	Order Clerks	70	\$11.18	\$23,260	\$7.44	\$15,470	\$13.05	\$27,150
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	50	\$13.06	\$27,170	\$10.02	\$20,850	\$14.58	\$30,330
43-4171	Receptionists and Information Clerks	580	\$7.90	\$16,440	\$6.23	\$12,950	\$8.74	\$18,180
43-4199	Information and Record Clerks, All Other	90	\$13.75	\$28,600	\$7.81	\$16,250	\$16.72	\$34,770
43-5021	Couriers and Messengers	60	\$7.60	\$15,810	\$6.40	\$13,310	\$8.20	\$17,060
43-5031	Police, Fire, and Ambulance Dispatchers	70	\$9.66	\$20,090	\$8.63	\$17,950	\$10.17	\$21,160
43-5032	Dispatchers, Except Police, Fire, and Ambulance	40	\$13.61	\$28,300	\$9.17	\$19,070	\$15.82	\$32,910
43-5041	Meter Readers, Utilities	20	\$8.07	\$16,790	\$5.95	\$12,370	\$9.14	\$19,010
43-5051	Postal Service Clerks	60	\$20.63	\$42,910	\$17.62	\$36,660	\$22.13	\$46,030

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43-5052	Postal Service Mail Carriers	150	\$21.14	\$43,980	\$14.91	\$31,000	\$24.26	\$50,470
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	40	\$20.54	\$42,730	\$15.26	\$31,740	\$23.19	\$48,230
43-5061	Production, Planning, and Expediting Clerks	70	\$17.18	\$35,740	\$12.58	\$26,170	\$19.48	\$40,520
43-5071	Shipping, Receiving, and Traffic Clerks	350	\$10.69	\$22,230	\$6.83	\$14,210	\$12.62	\$26,240
43-5081	Stock Clerks and Order Fillers	640	\$9.06	\$18,850	\$6.31	\$13,130	\$10.44	\$21,720
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	N/A	\$11.05	\$22,990	\$8.56	\$17,810	\$12.30	\$25,580
43-6011	Executive Secretaries and Administrative Assistants	380	\$13.67	\$28,440	\$10.39	\$21,610	\$15.31	\$31,850
43-6012	Legal Secretaries	N/A	\$12.07	\$25,110	\$9.28	\$19,310	\$13.47	\$28,010
43-6013	Medical Secretaries	120	\$12.63	\$26,260	\$9.38	\$19,520	\$14.25	\$29,640
43-6014	Secretaries, Except Legal, Medical, and Executive	1,240	\$10.20	\$21,230	\$7.03	\$14,620	\$11.79	\$24,530
43-9011	Computer Operators	50	\$10.37	\$21,580	\$6.92	\$14,400	\$12.10	\$25,170
43-9021	Data Entry Keyers	90	\$8.88	\$18,460	\$6.77	\$14,080	\$9.93	\$20,650
43-9022	Word Processors and Typists	20	\$11.10	\$23,090	\$7.39	\$15,360	\$12.96	\$26,960
43-9041	Insurance Claims and Policy Processing Clerks	N/A	\$12.32	\$25,630	\$10.41	\$21,650	\$13.28	\$27,610
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	40	\$8.80	\$18,300	\$5.89	\$12,240	\$10.25	\$21,330
43-9061	Office Clerks, General	880	\$8.31	\$17,280	\$6.12	\$12,720	\$9.40	\$19,560
43-9071	Office Machine Operators, Except Computer	50	\$9.74	\$20,250	\$7.99	\$16,610	\$10.61	\$22,080
45-0000	Farming, Fishing, and Forestry Occupations	160	\$14.78	\$30,730	\$8.98	\$18,680	\$17.67	\$36,760
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and	10	\$21.50	\$44,720	\$15.82	\$32,910	\$24.34	\$50,620
45-4022	Logging Equipment Operators	100	\$15.67	\$32,590	\$11.73	\$24,410	\$17.64	\$36,690
47-0000	Construction and Extraction Occupations	2,230	\$12.58	\$26,170	\$8.66	\$18,010	\$14.54	\$30,250

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47-1011	First-Line Supervisors/Managers of Construction Trades and	220	\$18.76	\$39,030	\$13.58	\$28,250	\$21.35	\$44,410
47-2031	Carpenters	280	\$13.40	\$27,870	\$11.30	\$23,510	\$14.44	\$30,040
47-2051	Cement Masons and Concrete Finishers	N/A	\$11.58	\$24,080	\$9.77	\$20,330	\$12.48	\$25,960
47-2061	Construction Laborers	280	\$10.06	\$20,930	\$7.72	\$16,050	\$11.23	\$23,370
47-2071	Paving, Surfacing, and Tamping Equipment Operators	50	\$10.60	\$22,050	\$8.57	\$17,820	\$11.62	\$24,160
47-2073	Operating Engineers and Other Construction Equipment Operators	190	\$12.77	\$26,550	\$9.68	\$20,120	\$14.31	\$29,770
47-2081	Drywall and Ceiling Tile Installers	N/A	\$10.44	\$21,710	\$6.53	\$13,570	\$12.39	\$25,770
47-2111	Electricians	240	\$16.37	\$34,060	\$12.61	\$26,220	\$18.26	\$37,970
47-2141	Painters, Construction and Maintenance	80	\$12.88	\$26,780	\$9.44	\$19,640	\$14.59	\$30,360
47-2152	Plumbers, Pipefitters, and Steamfitters	120	\$11.38	\$23,660	\$8.25	\$17,160	\$12.94	\$26,910
47-2211	Sheet Metal Workers	60	\$11.66	\$24,260	\$8.90	\$18,520	\$13.04	\$27,130
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	40	\$9.80	\$20,390	\$7.99	\$16,630	\$10.71	\$22,280
47-3012	Helpers--Carpenters	120	\$9.67	\$20,110	\$9.18	\$19,090	\$9.91	\$20,610
47-3013	Helpers--Electricians	80	\$10.12	\$21,060	\$8.85	\$18,400	\$10.76	\$22,390
47-3015	Helpers--Pipefitters, Plumbers, Pipefitters, and Steamfitters	N/A	\$8.52	\$17,720	\$7.43	\$15,450	\$9.06	\$18,850
47-4011	Construction and Building Inspectors	10	\$21.58	\$44,880	\$13.43	\$27,940	\$25.65	\$53,350
49-0000	Installation, Maintenance, and Repair Occupations	2,320	\$15.66	\$32,570	\$9.21	\$19,160	\$18.88	\$39,270
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and	220	\$22.81	\$47,440	\$14.87	\$30,930	\$26.78	\$55,700
49-2011	Computer, Automated Teller, and Office Machine Repairers	30	\$15.68	\$32,620	\$10.97	\$22,810	\$18.04	\$37,520
49-2022	Telecommunications Equipment Installers and Repairers, Except Line	60	\$20.38	\$42,400	\$12.30	\$25,580	\$24.43	\$50,810
49-2092	Electric Motor, Power Tool, and Related Repairers	N/A	\$10.91	\$22,700	\$7.86	\$16,340	\$12.44	\$25,880
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	20	\$21.12	\$43,940	\$17.57	\$36,530	\$22.90	\$47,640

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49-2098	Security and Fire Alarm Systems Installers	N/A	\$17.43	\$36,250	\$12.33	\$25,640	\$19.98	\$41,550
49-3021	Automotive Body and Related Repairers	60	\$12.18	\$25,330	\$9.08	\$18,880	\$13.73	\$28,550
49-3022	Automotive Glass Installers and Repairers	50	\$13.72	\$28,540	\$11.69	\$24,310	\$14.74	\$30,660
49-3023	Automotive Service Technicians and Mechanics	290	\$12.31	\$25,600	\$9.37	\$19,500	\$13.78	\$28,650
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	130	\$15.55	\$32,350	\$11.12	\$23,120	\$17.77	\$36,960
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	170	\$17.82	\$37,070	\$13.05	\$27,150	\$20.20	\$42,020
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	60	\$14.95	\$31,090	\$11.67	\$24,270	\$16.59	\$34,500
49-9041	Industrial Machinery Mechanics	70	\$16.34	\$33,980	\$12.19	\$25,360	\$18.41	\$38,280
49-9042	Maintenance and Repair Workers, General	510	\$13.35	\$27,780	\$8.13	\$16,910	\$15.97	\$33,210
49-9043	Maintenance Workers, Machinery	40	\$22.03	\$45,820	\$11.70	\$24,340	\$27.19	\$56,560
49-9044	Millwrights	90	\$19.78	\$41,140	\$15.51	\$32,260	\$21.91	\$45,580
49-9051	Electrical Power-Line Installers and Repairers	90	\$21.03	\$43,750	\$16.70	\$34,730	\$23.20	\$48,250
49-9098	Helpers--Installation, Maintenance, and Repair Workers	100	\$8.22	\$17,110	\$5.92	\$12,310	\$9.38	\$19,510
49-9099	Installation, Maintenance, and Repair Workers, All Other	20	\$14.44	\$30,040	\$9.05	\$18,830	\$17.13	\$35,640
51-0000	Production Occupations	3,160	\$13.50	\$28,080	\$8.24	\$17,140	\$16.13	\$33,550
51-1011	First-Line Supervisors/Managers of Production and Operating	200	\$21.70	\$45,130	\$13.67	\$28,440	\$25.71	\$53,480
51-2092	Team Assemblers	230	\$10.64	\$22,130	\$7.90	\$16,440	\$12.01	\$24,970
51-3011	Bakers	20	\$8.23	\$17,120	\$6.99	\$14,530	\$8.85	\$18,420
51-3021	Butchers and Meat Cutters	90	\$9.81	\$20,410	\$6.89	\$14,330	\$11.27	\$23,450
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	20	\$14.28	\$29,710	\$12.62	\$26,240	\$15.12	\$31,440
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and	60	\$11.36	\$23,630	\$9.65	\$20,080	\$12.21	\$25,400

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51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and	20	\$9.18	\$19,100	\$6.72	\$13,990	\$10.41	\$21,650
51-4041	Machinists	60	\$13.94	\$28,990	\$10.77	\$22,410	\$15.52	\$32,280
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders,	N/A	\$15.63	\$32,500	\$15.05	\$31,300	\$15.92	\$33,110
51-4121	Welders, Cutters, Solderers, and Brazers	240	\$13.92	\$28,940	\$11.79	\$24,520	\$14.98	\$31,160
51-4194	Tool Grinders, Filers, and Sharpeners	10	\$14.39	\$29,940	\$12.41	\$25,820	\$15.38	\$32,000
51-5022	Prepress Technicians and Workers	20	\$8.77	\$18,230	\$6.16	\$12,810	\$10.07	\$20,950
51-5023	Printing Machine Operators	N/A	\$10.66	\$22,170	\$8.84	\$18,400	\$11.57	\$24,060
51-6011	Laundry and Dry-Cleaning Workers	110	\$7.73	\$16,090	\$5.93	\$12,340	\$8.63	\$17,960
51-6021	Pressers, Textile, Garment, and Related Materials	20	\$7.24	\$15,060	\$6.06	\$12,610	\$7.83	\$16,280
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	N/A	\$13.55	\$28,180	\$12.44	\$25,880	\$14.10	\$29,330
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	10	\$9.66	\$20,100	\$9.55	\$19,870	\$9.72	\$20,210
51-8031	Water and Liquid Waste Treatment Plant and System Operators	40	\$12.74	\$26,500	\$9.28	\$19,290	\$14.48	\$30,110
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	100	\$11.69	\$24,310	\$8.71	\$18,110	\$13.18	\$27,410
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	90	\$19.76	\$41,100	\$14.32	\$29,790	\$22.48	\$46,750
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	130	\$14.86	\$30,920	\$10.22	\$21,250	\$17.19	\$35,750
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	30	\$12.13	\$25,230	\$10.10	\$21,000	\$13.14	\$27,340
51-9122	Painters, Transportation Equipment	30	\$14.30	\$29,750	\$10.85	\$22,570	\$16.03	\$33,340
51-9196	Paper Goods Machine Setters, Operators, and Tenders	N/A	\$15.15	\$31,520	\$11.09	\$23,070	\$17.19	\$35,750
51-9198	Helpers--Production Workers	90	\$10.49	\$21,830	\$8.64	\$17,960	\$11.42	\$23,760
53-0000	Transportation and Material Moving Occupations	3,520	\$11.34	\$23,600	\$6.86	\$14,270	\$13.59	\$28,260
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and	40	\$16.81	\$34,960	\$11.43	\$23,770	\$19.50	\$40,550

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53-1031	First-Line Supervisors/Managers of Transportation and Material-	80	\$19.03	\$39,570	\$12.74	\$26,500	\$22.17	\$46,100
53-3021	Bus Drivers, Transit and Intercity	30	\$7.93	\$16,490	\$6.04	\$12,560	\$8.87	\$18,450
53-3022	Bus Drivers, School	150	\$6.39	\$13,300	\$5.94	\$12,360	\$6.62	\$13,770
53-3031	Driver/Sales Workers	280	\$10.06	\$20,930	\$6.08	\$12,650	\$12.05	\$25,070
53-3032	Truck Drivers, Heavy and Tractor-Trailer	770	\$14.42	\$30,000	\$10.97	\$22,830	\$16.15	\$33,590
53-3033	Truck Drivers, Light or Delivery Services	530	\$12.53	\$26,060	\$7.95	\$16,530	\$14.82	\$30,830
53-3041	Taxi Drivers and Chauffeurs	N/A	\$9.34	\$19,430	\$7.38	\$15,360	\$10.32	\$21,470
53-7021	Crane and Tower Operators	40	\$20.00	\$41,590	\$14.25	\$29,630	\$22.87	\$47,570
53-7032	Excavating and Loading Machine and Dragline Operators	20	\$12.31	\$25,610	\$10.51	\$21,870	\$13.21	\$27,480
53-7051	Industrial Truck and Tractor Operators	230	\$12.63	\$26,280	\$9.94	\$20,680	\$13.98	\$29,070
53-7061	Cleaners of Vehicles and Equipment	120	\$8.19	\$17,040	\$5.99	\$12,450	\$9.30	\$19,340
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	920	\$8.55	\$17,770	\$6.85	\$14,240	\$9.39	\$19,540
53-7064	Packers and Packagers, Hand	90	\$6.81	\$14,170	\$5.88	\$12,230	\$7.28	\$15,140
53-7081	Refuse and Recyclable Material Collectors	70	\$10.03	\$20,870	\$6.15	\$12,800	\$11.97	\$24,900

Footnotes for May 2005 Occupational Employment and Wage estimates

(1) = Estimates for detailed occupations do not sum to the totals because the totals include occupations not shown separately. Estimates do not include self-employed workers.

(N/A) = Estimates not available.

SOC = Standard Occupational Classification

Technical Notes for May 2005 OES Estimates

The Occupational Employment Statistics (OES) survey is a semiannual mail survey measuring occupational employment and wage rates for wage and salary workers in nonfarm establishments in the United States. Guam, Puerto Rico, and the Virgin Islands also are surveyed, but their data are not included in this release. OES estimates are constructed from a sample of about 1.2 million establishments. Forms are mailed to approximately 200,000 establishments in May and November of each year for a 3-year period. The nationwide response rate for the May 2005 survey was 78.4 percent based on establishments and 73.2 percent based on employment. The survey included establishments sampled in the May 2005, November 2004, May 2004, November 2003, May 2003, and November 2002 semiannual panels.

The Occupational Coding System

The OES survey uses the Office of Management and Budget's (OMB) occupational classification system, the Standard Occupational Classification (SOC) system. The SOC system is the first OMB-required occupational classification system for federal agencies. The OES survey categorizes workers in 1 of 801 detailed occupations. Together, these detailed occupations comprise 23 major occupational groups, one of which-military specific occupations-is not included in the OES survey. The major groups are as follows:

- Management occupations
- Business and financial operations occupations
- Computer and mathematical occupations
- Architecture and engineering occupations
- Life, physical, and social science occupations
- Community and social services occupations
- Legal occupations
- Education, training and library occupations
- Arts, design, entertainment, sports, and media occupations
- Healthcare practitioners and technical occupations
- Healthcare support occupations
- Protective service occupations
- Food preparation and serving related occupations
- Building and grounds cleaning and maintenance occupations
- Personal care and service occupations
- Sales and related occupations
- Office and administrative support occupations
- Farming, fishing, and forestry, occupations
- Construction, and extraction occupations
- Installation, maintenance, and repair occupations
- Production occupations
- Transportation and material moving occupations
- Military specific occupations (not surveyed in OES).

For more information about the SOC, please see the BLS Web site at <http://www.bls.gov/soc/home.htm>.

The Industry Coding System

The OES survey uses the North American Industry Classification System (NAICS). For more information about NAICS, see the BLS Web site at <http://www.bls.gov/bls/naics.htm>.

The OES survey includes establishments in NAICS sectors 11 (logging and agricultural support activities only), 21, 22, 23, 31-33, 42, 44-45, 48-49, 51, 52, 53, 54, 55, 56, 61, 62, 71, 72, 81 (except private households), state government, and local government. The executive branch of the federal government and the U.S. Postal Service also are included. An establishment is defined as an economic unit that processes goods or provides services, such as a factory, store, or mine. The establishment is generally at a single physical location and is engaged primarily in one type of economic activity.

The OES survey covers all full-and part-time wage and salary workers in nonfarm industries. The survey does not include the self-employed owners and partners in unincorporated firms, household workers, or unpaid family workers.

Survey Sample

BLS funds the survey and provides the procedures and technical support, while the State Workforce Agencies (SWAs) collect most of the data. BLS produces cross-industry and industry-specific estimates for the nation, states, and metropolitan statistical areas (MSAs). Industry-specific estimates are produced at the NAICS sector, 3-digit, 4-digit, and selected 5-digit industry levels. BLS releases all cross-industry and national estimates; the SWAs release industry-specific estimates at the state and MSA levels.

State Unemployment Insurance (UI) files provide the universe from which the OES survey draws its sample. Employment benchmarks are obtained from reports submitted by employers to the UI program. Supplemental sources are used for rail transportation (NAICS 4821) and Guam because they do not report to the UI program. The OES survey sample is stratified by metropolitan and nonmetropolitan areas and industry. Samples selected in panels prior to May 2005 were stratified using MSA definitions based on the 1990 Metropolitan Statistical Area Standards. Beginning with the May 2005 panel, the sample was stratified using new MSA definitions based on the 2000 Metropolitan Statistical Area Standards.

A census of federal government and the U.S. Postal Service is taken every panel. A census of state government and Hawaii's local government is taken every November panel. In order to provide the most occupational coverage, larger employers are more likely to be selected than smaller employers. The unweighted employment of sampled establishments make up approximately 65 percent of total national employment.

Concepts

Occupational employment is the estimate of total wage and salary employment in an occupation across the industries surveyed. The OES survey defines employment as the number of workers who can be classified as full- or part-time employees, including workers on paid vacations or other types of paid leave; workers on unpaid short-term absences; salaried officers, executives, and staff members of incorporated firms; employees temporarily assigned to other units; and employees for whom the reporting unit is their permanent duty station regardless of whether that unit prepares their paycheck.

The OES survey form sent to establishments with more than 10 workers contains between 50 and 225 SOC occupations selected on the basis of the sampled establishment's industry classification. To reduce paperwork and respondent burden, no survey form contains every SOC occupation. Thus, data for specific occupations are collected primarily from establishments in industries that are the predominant employers of workers in those occupations. Each survey form is structured, however, to allow a respondent to provide detailed occupational information for each worker at the establishment; that is, unlisted occupations can be added to the survey form. Employers with 10 or fewer workers are sent a form with no occupations listed, and are instructed to fill in the occupations for their workers.

Wages for the OES survey are straight-time, gross pay, exclusive of premium pay. Base rate, cost-of-living allowances, guaranteed pay, hazardous-duty pay, incentive pay including commissions and production bonuses, tips, and on-call pay are included. Excluded are back pay, jury duty pay, overtime pay, severance pay, shift differentials, non-production bonuses, employer cost for supplementary benefits, and tuition reimbursements.

The OES survey collects wage data in 12 intervals. Employers report the number of employees in an occupation per each wage range. The wage intervals used for the November 2004 survey are as follows:

Interval	Hourly Wages	Annual Wages
Range A	Under \$6.75	Under \$14,040
Range B	\$6.75 to \$8.49	\$14,040 to \$17,679
Range C	\$8.50 to \$10.74	\$17,680 to \$22,359
Range D	\$10.75 to \$13.49	\$22,360 to \$28,079
Range E	\$13.50 to \$16.99	\$28,080 to \$35,359
Range F	\$17.00 to \$21.49	\$35,360 to \$44,719
Range G	\$21.50 to \$27.24	\$44,720 to \$56,679

Range H	\$27.25 to \$34.49	\$56,680 to \$71,759
Range I	\$34.50 to \$43.74	\$71,760 to \$90,999
Range J	\$43.75 to \$55.49	\$91,000 to \$115,439
Range K	\$55.50 to \$69.99	\$115,440 to \$145,599
Range L	\$70.00 and over	\$145,600 and over

Mean hourly wage. The mean hourly wage rate for an occupation is the total wages that all workers in the occupation earn in an hour divided by the total employment of the occupation. To calculate the mean hourly wage of each occupation, total weighted hourly wages are summed across all intervals and divided by the occupation's weighted survey employment. The mean wage for each interval is based on occupational wage data collected by the BLS Office of Compensation and Working Conditions for the National Compensation Survey (NCS).

The mean hourly wage value for the highest wage interval, \$70.00 and over, was computed separately for NCS data from 2004, 2003, 2002, and 2001. The average of these mean wage rates was used for all of the \$70.00 and over data in the November 2004 survey. The wage rates for this interval do not go through any wage updating procedures.

Because there is wide variation in the number of hours worked by those employed as actors, dancers, musicians, and singers, only hourly wages are available for those occupations. Many jobs are for a duration of 1 day or 1 week and it is extremely rare for a performer to have guaranteed employment for a period that exceeds 3 to 6 months.

Percentile wage. The p-th percentile wage rate for an occupation is the wage where p percent of all workers earn that amount or less and where (100-p) percent of all workers earn that amount or more. This statistic is calculated by uniformly distributing the workers inside each wage interval, ranking the workers from lowest paid to highest paid, and calculating the product of the total employment for the occupation and the desired percentile to determine the worker that earns the p-th percentile wage rate.

Annual wage. Many employees are paid at an hourly rate by their employers and may work more than or less than 40 hours per week. Annual wage estimates for most occupations in this release are calculated by multiplying the mean hourly wage by a "year-round, full-time" figure of 2,080 hours (52 weeks by 40 hours). Thus, annual wage estimates may not represent the actual annual pay received by the employee if they work more or less than 2,080 hours per year. Some workers typically work less than full time, year round. For these occupations, the OES survey collects and reports either the annual salary or the hourly wage rate, depending on how the occupation is typically paid, but not both. For example, teachers, flight attendants, and pilots may be paid an annual salary, but do not work the usual 2,080 hours per year. In this case, an annual salary is reported.

Other workers, such as entertainment workers, are paid hourly rates, but generally do not work full time, year round. For these workers, only an hourly wage is reported.

Hourly versus annual wage reporting. For each occupation, respondents are asked to report the number of employees paid within specific wage intervals. The intervals are defined both as hourly rates and the corresponding annual rates, where the annual rate for an occupation is calculated by multiplying the hourly wage rate by a typical work year of 2,080 hours. The responding establishment can reference either the hourly or the annual rate for full-time workers, but they are instructed to report the hourly rate for part-time workers.

Estimation methodology

Each OES panel includes approximately 200,000 establishments. The OES survey is designed to produce estimates using six panels (3 years) of data. The full six-panel sample of 1.2 million establishments allows the production of estimates at detailed levels of geography, industry, and occupation.

Wage Updating. Significant reductions in sampling errors are obtained by combining six panels of data, particularly for small geographic areas and occupations. Wages for the current panel need no adjustment. However, wages in the five previous panels need to be updated to the current panel's reference period.

The OES program uses the BLS Employment Cost Index (ECI) to adjust survey data from prior panels before combining them with the current panel's data. The wage updating procedure adjusts each detailed occupation's wage rate, as measured in the earlier panel, according to the average movement of its broader occupational division. The procedure assumes that there are no major differences by geography, industry, or detailed occupation within the occupational division.

Imputation. About 20 percent of establishments do not respond for a given panel. A "nearest neighbor" hot deck imputation procedure is used to impute missing occupational employment totals. A variant of mean imputation is used to impute missing wage distributions. The variant of mean imputation for wage distributions also is applied to establishments that provide reports with occupational totals but partial or missing wage data.

Weighting and benchmarking. The sample establishments in each panel are weighted to represent all establishments that were part of the in-scope frame from which the panel was selected. Based on the sampled establishments, sampling weights are adjusted when six panels are combined. Sampling weights are further adjusted by the ratio of employment totals (the average of November 2004 and May 2005 employment) from the BLS Quarterly Census of Employment and Wages to employment totals from the OES survey.

May 2005 OES survey estimates. The May 2005 OES survey estimates are based on all data collected from establishments in the May 2005, November 2004, May 2004, November 2003, May 2003, and November 2002 semiannual samples.

Reliability of the estimates. Estimates calculated from a sample survey are subject to two types of error: sampling and nonsampling. Sampling error occurs when estimates are calculated from a subset (i.e., sample) of the population instead of the full population. When a sample of the population is surveyed, there is a chance that the sample estimate of the characteristic of interest may differ from the population value of that characteristic. Differences between the sample estimate and the population value will vary depending on the sample selected. This variability can be estimated by calculating the standard error (SE) of the sample estimate. If we were to repeat the sampling and estimation process countless times using the same survey design, approximately 90 percent of the intervals created by adding and subtracting 1.645 SEs from the sample estimate would include the population value. These intervals are called 90-percent confidence intervals. The OES survey, however, usually uses the relative standard error (RSE) of a sample estimate instead of its SE to measure sampling error. RSE is defined as the SE of a sample estimate divided by the sample estimate itself. This statistic provides the user with a measure of the relative precision of the sample estimate. RSEs are calculated for both occupational employment and mean wage rate estimates. Occupational employment RSEs are calculated using a subsample, random group replication technique called the jackknife. Mean wage rate RSEs are calculated using a variance components model that accounts for both the observed and unobserved components of the wage data. The variances of the unobserved components are estimated using wage data from the BLS National Compensation Survey. In general, estimates based on many establishments have lower RSEs than estimates based on few establishments. If the distributional assumptions of the models are violated, the resulting confidence intervals may not reflect the prescribed level of confidence.

Nonsampling error occurs for a variety of reasons, none of which are directly connected to sampling. Examples of nonsampling error include: nonresponse, data incorrectly reported by the respondent, mistakes made in entering collected data into the database, and mistakes made in editing and processing the collected data.